

**WESTBAY
WELL SUMMARY**

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Location ID: WB-2 Field Representative(s): R. Cooper

Date Started: 01/24/90 Date Completed: 04/13/90

Northing: 221601.22 Easting: 417825.10

Brass Cap: 4901.00 Outer Casing: 4901.44 Inner Casing: 4902.63

Drilling Method: Mud & Air-Foam Rotary Drilling Contractor: Larjon Drilling Co.

Driller: T. Crawford & J. Gower

Total Depth Borehole: 382.2' Total Depth Well Casing: 380'

Total Depth Surface Casing: 136'

Diameter Well Casing: 1.5" (I.D.) Diameter Surface Casing: 5"(nominal)

Water Producing (packed-off) Intervals: 239.0' to 256.0'

Water Producing (packed-off) Intervals: 259.0' to 281.0'

Water Producing (packed-off) Intervals: 264.0' to 382.2'

*shouldn't
this be 364.0'*

Water Zone(s) Detected: 136'-265' (after overnight recovery)
370'-371'

Water Level Open Borehole: 216.14'(T.O.S.C.)
04/03/90

Water Level Cased Borehole: SEE PRESSURE PROFILE DATA SHEETS

Quik-Foam Use: unknown

Estimated Water Use: 2,100 gallons

Well Casing:

2in x 2ft SCD 80 PVC:	<u>1</u>	=	<u>2</u>	ft
2in x 5ft SCD 80 PVC:	<u>2</u>	=	<u>10</u>	ft
2in x 10ft SCD 80 PVC:	<u>34</u>	=	<u>340</u>	ft
Total SCD 80 PVC pipe:			<u>352</u>	ft

5ft MP packer:	<u>6</u>	=	<u>30</u>	ft
Regular coupling:	<u>33</u>			
Pumping port coupling:	<u>3</u>			
Measurement port coupling:	<u>6</u>			
End cap:	<u>2</u>			
Casing Clamp:	<u>0</u>			
Magnetic collars:	<u>3</u>			

Well Completion:

100# bags 16/40 sand:	bags
100# bags 10/20 sand:	bags
100# bags 8/14 sand:	bags
100# bags 8/20 sand:	bags
94# bags cement:	bags
5 gal. buckets bentonite:	buckets
50# bentonite powder:	bags
Benseal:	bags

Surface Casing:

94# bags cement:	2	bags
50# bags hydro-gel powder:	11	bags (for mud drilling only)

Pertinent Field Notes:

01/23/90	Start mobilization to WB-2 site. - Cooper
01/24/90	Brought water from Jornada Well. Mixed drilling mud and drilled from 0' to 120' using mud rotary with 7 7/8" bit. Examined and replaced both air filters on BE Rig; both partially saturated. - Cooper
01/25/90	Continued drilling from 120' to 135'. Encountered limestone bedrock at 126'. Drilled to 135' to try and find more competent rock. Install 5" x 136' steel surface casing and blew drilling mud from borehole. - Cooper
01/26/90	Demobilized mud rotary drilling equipment from WB-2 and mobilized to WB-3. - Cooper
02/07/90	Demobilized air-foam rotary drilling equipment from WB-1, steam cleaned, and mobilized to WB-2. Drilled from 136' to 265' using air-foam rotary with a 4" hammer-bit. Drilled through interbedded calcareous shales and limestones. No obvious water producing zones encountered while drilling. - Cooper

- 02/08/90 Small amounts of water (50-60 gallons) accumulated in borehole overnight. Continued drilling 265'-380'. Drilled through interbedded calcareous shales and limestones. A good water producing zone encountered between 370' and 371'. Borehole TD was 380' (250' into the bedrock). 600 gallons of water was blown out of the borehole for development. Well producing 20-25 gpm during development. Mobilized drilling equipment to WB-3. - Cooper
- 03/12/90 Installed 3.5" O.D. PVC sleeve to a depth of 195' below ground level. PVC could not be worked past this point. Remove PVC sleeve. - Kirby
- 04/13/90 Install PVC sleeve to 195' a second time for completion purposes. Sound bottom of borehole at 382.2'. Installed westbay casing/couples (see casing installation log for details). Inflated all (six) packers. - Contaldo
- 04/16/90 Conducted first pressure profile, attempted rising head slug test of zone #1. Rapid water level equalization precluded obtaining adequate data for analysis (need to repeat test). - Contaldo
- 04/18/90 Conducted rising head slug of zone #4. - Contaldo
- 08/14/90 Start completion above uppermost packer using silica sand and a bentonite plug. Install silica sand and a bentonite plug within borehole/surface casing annulus. - Egan
- 08/29/90 Grout to surface. Lockheed will finish well head (concrete pad, barrier posts, etc.) - Egan